U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Pag	erwork Reduction Act	of 1995, no per	sons are required to rea	spond to a collection of information unles	s it contains a valid OMB control number.
Substitute fo	Substitute for form 1449A/PTO		Complete if Known		
·				Application Number	To be assigned
INFORMATION DISCLOSURE			SURE	Filing Date	July 14, 2003
	STATEMENT BY APPLICANT (use as many sheets as necessary)			First Named Inventor	Shiro Fukuyama
				Art Unit	To be assigned
1	, ,		• •	Examiner Name	To be assigned
Sheet	1	of	189	Attorney Docket Number	6012.210-US

		U.	S PATENT DOCUM	MENTS	
Examiner Initials	Cite No. 1	Document Number Number ~ Kind Code 2 (if known)	¹ Publication Date MM-DD-YYYY	Name of Palentes or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MM		6,015,783	01/2000	Van Der Olsen	
				<u> </u>	· · · · · · · · · · · · · · · · · · ·
					- <u>-</u>
					
			·		······································
	 				
	- 				<u> </u>
	-}				·
		ļ			
					
			·		·····
					
					
	+				
				<u> </u>	·
	+				
	+		 -		

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Çite No.	Foreign Patent Document Country Code 3 – Number 4 – Kind Code 5 (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т 6
mm		EP 0 884 384 A2	12/98			
<u> </u>	╁┷┷		 -		 	
	-				- -	
	 		·			
	L					
	ļ·	<u> </u>	·			
 ·	ļ		ļ <u></u> _			<u>.</u>
	 				[
	 	 	} , -			<u></u>
<u> </u>	 					
	 				 	
				 	 	
	T .		,,			

	^		<u> </u>
Examiner Signature	mml	Date Considered	31706

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents, Washington, DC 20231.

[&]quot;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uselo.gog or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁸ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to	respond to a collection of information unles	s it contains a valid OMB control number.	
Substitute for form 1449A/PTO	Complete if Known		
	Application Number	To be assigned	
	Filing Date	July 14, 2003	
	First Named Inventor	Shiro Fukuyama	
•	Art Unit	To be assigned	
	Examiner Name	To be assigned	
Sheet 2 of 9	Attorney Docket Number	6012.210-US	

Examiner's Initials	Cite No. 1	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				
hus		Terada et al., Applied and Environmental Microbiology, Vol. 65, No. 3, pp 910-915 (1999)	<u>.</u>			
		Takaha et al., The Journal of Biological Chemistry, Vol. 208, No. 2, pp. 1881-1895 (1998)				
		Kitahata et al., Agric. Biol. Chem., 53 (10), 2653-2659, 1989				
1		Peat et al., J. Chem. Soc. 1956, 44-53				
ma		Kaneko et al., PIR Database Accession No. S74648, 25 Apr. 1997				
•						
	•					

Examiner Date 2/06 Considered Signature

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.